INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41596

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : H04R 25/00					
TIS CL : 600/25: 381/328					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELI	DS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)					
U.S. : 600/25; 387/330, 332, 382, 380; 381/328, 330, 322, 382, 380; 607/55-57					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
EAST					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
X	US 2003/0086583 A1 (MALTAN ET AL) 08 May 2003. See entire document			16 and 17	
A			•	1-15 and 18-33	
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A	US 6,094,493 A (BOROWSKY ET AL) 25 July 2000. See entire document.			1-33	
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A	US 4,602,637 A (ELMQVIST) 29 July 1986. See entire document.			1-33	
A	US 4,774,933 A (HOUGH ET AL) 04 October 1988. See entire document.			1-33	
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Further documents are listed in the continuation of Box C. See patent family annex.					
* Special categories of cited documents: "T" later document published after the international filing date o priority date and not in conflict with the application but cite				nternational filing date or	
-	t defining the general state of the art which is not considered to		priority date and not in conflict with understand the principle or theory u	nderlying the invention	
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	t which may throw doubts on priority claim(s) or which is cited is the publication date of another citation or other special reason	•	considered to involve an inventive s	step when the document is	
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"O" document referring to an oral disclosure, use, exhibition or other means			•		
	-	" &"	document member of the same pater	nt family	
"P" document published prior to the international filing date but later than the priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
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18 March 2005 (18.03.2005) Name and mailing address of the ISA/US Authorized officer				_====	
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	il Stop PCT, Attn: ISA/US nmissioner for Patents	Samuel	Samuel G. Gilbert		
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